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new substage, tentatively called the Floyd limestone, is added at the base of the Lime Creek stage.

Some Notes on the Aftonian Mammals: A. O. Thomas.

A number of interesting mammalian bones and teeth have been added to the State University collection during the past year. They are chiefly remains of the elephant, horse and camel. The finding of the lower jaw of a beaver adds a new genus to this remarkable faunal assemblage.

Early Iowa Locality Records: B. Shimek.

A discussion of the early Iowa plant, mollusk and insect records in the earlier reports, such as those of the Lewis and Clark, Long, Nicollet and Owen expeditions. Also a discussion of the "Council Bluff," Nebraska, records which are sometimes thought to refer to Council Bluffs, Iowa.

The Phase Difference at the Ears Produced by a Simple Source of Sound: G. W. Stewart.

A New Laboratory Apparatus for Measuring Time, Independent of Clock or Chronograph: F. C. Brown.

Evidence Favoring the Chemical Disintegration of Sodium as an Element: F. C. Brown.

The Effect of Mechanical Rupture on the Electrical Conductivity of Selenium: F. C. Brown.

A Method of Determining Whether the Restoring Torque is Proportional to the Torsional Strain during the Vibration of a Torsional Pendulum: L. P. Sieg.

The Influence of an Electric Current upon the Elasticity of Wires: H. L. Dodge.

A Simple Laboratory Equipment for the Elementary Study of Alternating Currents: H. L. Dodge.

On the Dissimilarity of Light and Heat Action in a Certain Variety of Selenium: E. O. Dieterich.

Mollusca of Iowa: T. Van Hyning.

A Study in Insect Parasitism: R. L. Webster.

An account of certain insect parasites reared from the common tomato-worm, *Phlegethontias sexta* Johanssen, the relations of these parasites to the host and to each other, and their comparative abundance, etc.

A Systematic Study of the Reduviidae of North America: S. B. Fracker.

Notes on a Collection of Mammals from Northwestern Iowa: Alexander G. Ruthven and Norman A. Wood.

Contributions to the Herpetology of Iowa—II.: Alexander G. Ruthven.

Food Habits of Red-tailed Hawk, Cooper's Hawk and Sparrow Hawk: F. C. Pellett.

The Interpretation of the Cardio-sphygmogram and the Electro-cardiogram, Normal and Pathological: W. E. Sanders.

The Source of the Chromaffine Cells in the Guinea-pig: Mildred R. Yule.

Notes on the Food of the Black-crowned Night Heron in Captivity: B. H. Bailey.

The Occurrence of Melanism in the Broad-winged Hawk: B. H. Bailey.

A Remarkable Flight of Broad-winged Hawks: B. H. Bailey.

L. S. Ross,
Secretary

SOCIETIES AND ACADEMIES

THE PHILOSOPHICAL SOCIETY, UNIVERSITY OF VIRGINIA. MATHEMATICAL AND SCIENTIFIC SECTION

THE first meeting of the session 1912-13 of the Mathematical and Scientific Section was held September 23, 8:00 P.M. The following officers were elected:

Chairman—Professor Llewelyn G. Hoxton.

Secretary—Professor Wm. A. Kepner.

Publication Committee—Professors W. H. Echols, J. L. Newcomb and Thomas L. Watson.

The retiring chairman, Professor Thomas L. Watson, read by title a paper on "Kragite, a Rutile-bearing Rock from Krageros, Norway." Professor Watson read a second paper entitled "Vanadium and Chromium in Rutile and the Possible Effect of Vanadium on Color."

Professor R. M. Bird reported observations made along New River, Virginia to North Carolina.

WM. A. KEPNER,
Secretary

UNIVERSITY OF VIRGINIA

THE ELISHA MITCHELL SCIENTIFIC SOCIETY

THE 200th meeting of the society was held October 15 in Chemistry Hall, University of North Carolina, Professor E. V. Howell presiding. The following new members were elected: Professor H. W. Chase and Mr. J. S. Holmes. The following papers were read:

"Chemical Control of Industrial Plants," by Dr. C. H. Herty.

"The Water Molds of Chapel Hill," by Dr. W. C. Coker.

JAMES M. BELL,
Recording Secretary

CHAPEL HILL, N. C.